

RP7 SINGLE-PHASE POWER CONTROLLER

FEATURES:

Phase control

Soft Start

I_{LIM}

α_{LIM}

INPUT:



0..10 V
0..20 mA

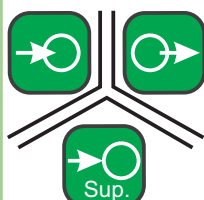
OUTPUTS:

5 A

10 A

15 A

GALVANIC ISOLATION:



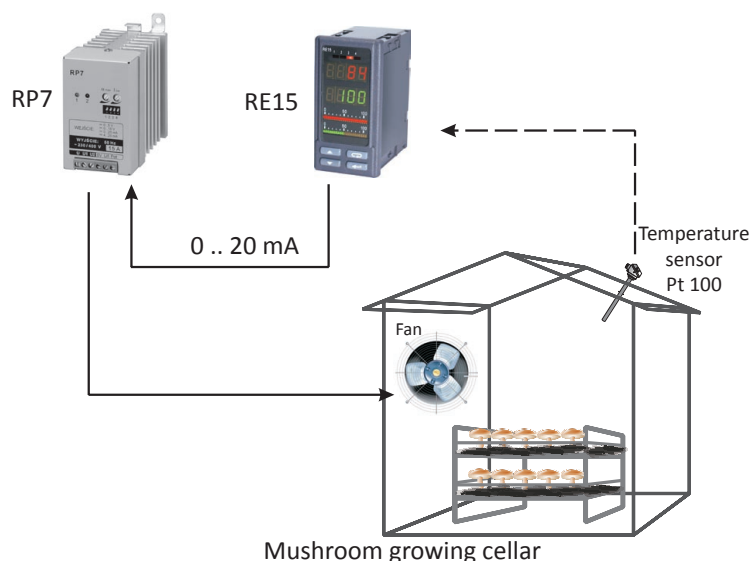
Matern d.o.o.
tel: 02 608 90 10
info@gmail.com
www.matern.si

LUMEL S.A.
ul. Stubička 1
65-127 Zielona Góra
POLAND



- Contactless power switching on.
- For power control of resistive and resistive-inductive energy receivers, and rotational speed control of single-phase motors with a capacitor or commutator motors at small loads.
- Output current: 5, 10 or 15 A.
- Trigger deceleration of "softstart" type.
- Signaling of fuse damages.
- Control of the initial trigger angle value.
- Receiver current limitation and limitation of the receiver current and release angle.
- Control by a continuous or potentiometric signal.
- Phase control.

EXAMPLE OF APPLICATION



Ventilation of production halls.

INPUTS

Input type	Range	Remarks
potentiometric	0 .. 10 k Ω	
continuous	0 .. 5 V	input resistance: 3 kΩ
continuous	0 .. 10 V	input resistance: 6 kΩ
continuous	0 .. 20 mA	input resistance: 250 Ω
continuous	4 .. 20 mA	input resistance: 250 Ω

OUTPUTS

Output type	Properties
triac	5, 10, 15 A; 195 .. 230 .. 253 V

EXTERNAL FEATURES

Overall dimensions	50 x 105 x 105 mm
Weight	0.55 kg
Protection grade	IP20

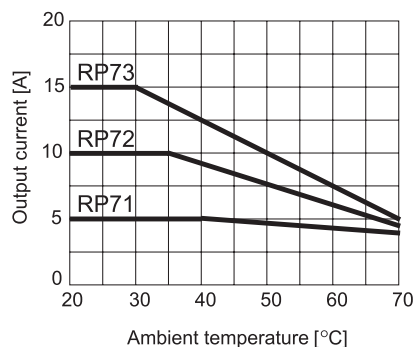
RATED OPERATING CONDITIONS

Temperature	ambient: 5 .. 20 .. 50°C	storage: -20 .. 80°C
Operating position	vertical	
External magnetic field	< 400 A/m	

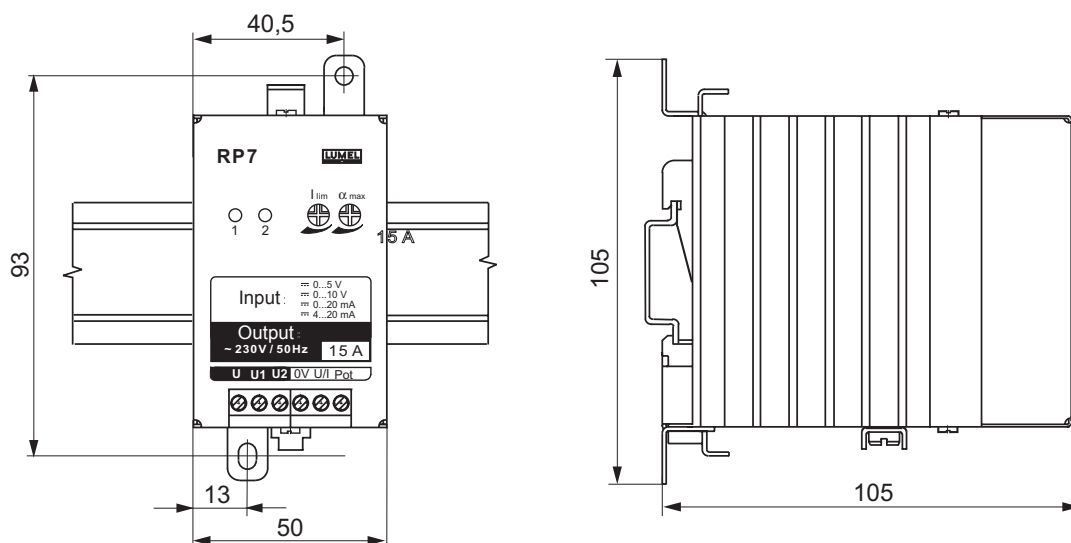
SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 60947-4-3
	noise emissions	acc. to EN 60947-4-3
Pollution level	2	
Installation category	III	
Maximal phase-to-earth operating voltage	320 V for power circuits and supply, 50 V for other circuits	for input circuits: 50 V

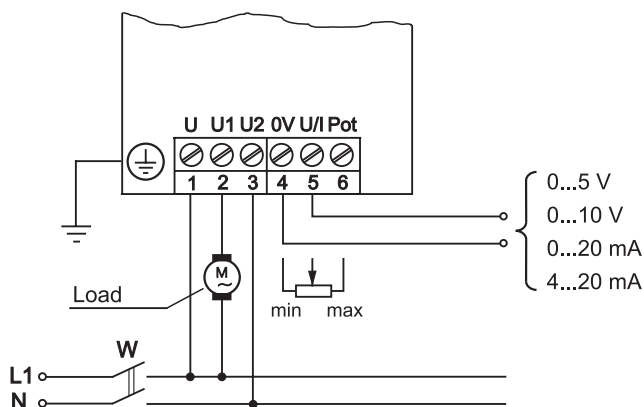
LOAD CAPACITY



OVERALL AND MOUNTING DIMENSIONS



CONNECTION DIAGRAM



ORDERING

RP7 -	X	X
Maximal output current:		
5 A	1	
10 A	2	
15 A	3	
Acceptance tests:		
without additional quality inspection requirements	8	
with an extra quality inspection certificate	7	
other requirements *	X	

* After agreeing with the manufacturer

ORDER EXAMPLE:

The cod: **RP7 - 2 - 8** means:

RP7 - power controller of RP7 type,
2 - maximal output current: 10 A,
0 - without additional quality inspection requirements.

SEE ALSO:



Temperature sensors.



Controllers.



Power controller of RP series.



For more information about LUMEL's products please visit our website: www.lumel.com.pl

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